Amendments to the Claims

Lis	ting	of	Cl	aim	s:

- 1. 2. (cancelled)
- 3. (Currently Amended) An isolated nucleic acid molecule encoding the protein of claim

 1 a protein having mannosidase activity, wherein the protein comprises:

 (a) an amino acid sequence comprising SEQ ID NO: 18;

 (b) an amino acid sequence that differs from SEQ ID NO: 18 by one or more

 conservative amino acid substitutions; and

 (c) an amino acid sequence comprising at least 60% sequence identity to SEQ ID

 NO: 18.
- 4. (previously presented) A recombinant nucleic acid molecule, comprising a promoter sequence operably linked to the nucleic acid of claim 3.
- 5. (previously presented) A cell, transformed with the recombinant nucleic acid molecule of claim 4.
- 6. (previously presented) The transformed cell of claim 5, wherein the cell is an insect cell, a yeast cell, an algae cell, a bacterial cell, a mammalian cell, or a plant cell.
- 7. (previously presented) A transgenic fungus, comprising the recombinant nucleic acid of claim 4.
 - 8. 9. (Cancelled)
- 10. (previously presented) A method for producing a macromolecule having an altered glycosylation pattern, comprising allowing the transformed cell of claim 4 to produce the macromolecule.

selected from the group consisting of:			
	(a) at least 20 contiguous nucleotides of the sequence shown in SEQ ID NO: 1;		
	(b) at least 30 contiguous nucleotides of the sequence shown in SEQ ID NO: 1;		
	(c) at least 40 contiguous nucleotides of the sequence shown in SEQ ID NO: 1;		
	-(d) at least 15 contiguous nucleotides of the sequence shown in SEQ ID NO: 17 4;		
	(e) at least 20 contiguous nucleotides of the sequence shown in SEQ ID NO: 4;		
	(f) at least 30 contiguous nucleotides of the sequence shown in SEQ ID NO: 4;		
	(g) at least 40 contiguous nucleotides of the sequence shown in SEQ ID NO: 4;		

(h) at least 50 contiguous nucleotides of the sequence shown in SEQ ID NO: 4; and

(i) at least 50 contiguous nucleotides of the sequence shown in SEQ ID NO: 1.

11. (Currently Amended) An isolated nucleic acid molecule, comprising a sequence

12. - 19. (Cancelled)

- 20. (new) The isolated nucleic acid molecule of claim 11, comprising at least 20 contiguous nucleotides of the sequence shown in SEQ ID NO: 17.
- 21. (new) The isolated nucleic acid molecule of claim 11, comprising at least 30 contiguous nucleotides of the sequence shown in SEQ ID NO: 17.
- 22. (new) The isolated nucleic acid molecule of claim 11, comprising at least 40 contiguous nucleotides of the sequence shown in SEQ ID NO: 17.
- 23. (new) The isolated nucleic acid molecule of claim 11, comprising at least 50 contiguous nucleotides of the sequence shown in SEQ ID NO: 17.
- 24. (new) An isolated nucleic acid molecule, comprising at least 80% sequence identity to SEQ ID NO: 17.
- 25. (new) The isolated nucleic acid molecule of claim 24, comprising at least 90% sequence identity to SEQ ID NO: 17.

35

- 26. (new) The isolated nucleic acid molecule of claim 24, comprising at least 95% sequence identity to SEQ ID NO: 17.
 - 27. (new) The isolated nucleic acid molecule of claim 24, comprising SEQ ID NO: 17.
- 28. (new) An isolated nucleic acid molecule, comprising a sequence that can hybridize to SEQ ID NO: 17 under very high stringency conditions, wherein the very high stringency conditions comprise incubation in 5x SSC at 65°C for 16 hours, washing twice in 2x SSC at room temperature for 15 minutes each, and washing twice in 0.2x SSC at 65°C 20 minutes each.
- 29. (new) The isolated nucleic acid molecule of claim 3, wherein the nucleic acid encodes a protein comprising at least 90% sequence identity to SEQ ID NO: 18.
- 30. (new) The isolated nucleic acid molecule of claim 3, wherein the nucleic acid encodes a protein comprising SEQ ID NO: 18.

Page 7 of 8